

# **IT9000 Control Software**

## **PV6000 Installation Instruction**



### Notices

© Itech Electronic, Co., Ltd. 2019 No part of this manual may be reproduced in any form or by any means (including electronic storage and retrieval or translation into a foreign language) without prior permission and written consent from Itech Electronic, Co., Ltd. as governed by international copyright laws

#### Manual Part Number

IT9000-PV6000

#### Revision

1st Edition: Jul. 15th, 2019 Itech Electronic, Co., Ltd.

#### Trademarks

Pentium is U.S. registered trademarks of Intel Corporation.

Microsoft, Visual Studio, Windows and MS Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries and regions.

#### Warranty

The materials contained in this document are provided "as is", and is subject to change, without prior notice, in future editions. Further, to the maximum extent permitted by applicable laws, ITECH disclaims all warrants, either express or implied, with regard to this manual and any information contained herein, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. ITECH shall not be held liable for errors or for incidental or indirect damages in connection with the furnishing, use or application of this document or of any information contained herein. Should ITECH and the user enter into a separate written agreement with warranty terms covering the materials in this document that conflict with these terms, the warranty terms in the separate agreement shall prevail. **Technology Licenses** 

The hardware and/or software described herein are furnished under a license and may be used or copied only in accordance with the terms of such license.

### **Restricted Rights Legend**

Restricted permissions of the U.S. government. Permissions for software and technical data which are authorized to the U.S. Government only include those for custom provision to end users. ITECH provides this customary commercial license in software and technical data pursuant to FAR 12.211 (Technical Data) and 12.212 Computer Software) and, for the Department of Defense, DFARS 252.227-7015 (Technical Data -Commercial Items) and DFARS 227.7202-3 (Rights in Commercial Computer Software or Computer Software Documentation).

### Safety Notices

### CAUTION

A CAUTION sign denotes a hazard. It calls attention to an operating procedure or practice that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a CAUTION sign until the indicated conditions are fully understood and met.

### WARNING

A WARNING sign denotes a hazard. It calls attention to an operating procedure or practice that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a WARNING sign until the indicated conditions are fully understood and met.



A NOTE sign denotes important hint. It calls attention to tips or supplementary information that is essential for users to refer to.



### Content

Chapter1	Introduction	1
1.1 About	this manual	1
1.2 Docun	nent Information	1
1.3 Brief I	ntroduction	1
1.4 Softwa	are Matching Relationship and Mode of Access	2
Chapter2	Installing Software	4
2.1 Install	ing Operating System	4
2.2 Install	ing NI 488.2 Driver	4
2.3 Install	ing NI VISA	7
2.4 Install	ing ICP Driver12	2
2.5 Install	ing IT9000 Software10	3
2.6 Verifyi	ng the Installation1	7
Chapter3	Removing Software18	3



## Chapter1Introduction

## 1.1 About this manual

This manual, as an installation and operation guide for the user, includes the following contents:

- Introduction
- Installing Software
- Removing Software

### **1.2 Document Information**

The supporting documentations of IT9000-PV6000 are as follows which can be accessed via the CD supplied with the instrument or ITECH official website.

Manual Title	Description	
IT9000-PV6000 Installation Instruction	on Explain how to install, inspect the	
	software, and how to connect	
	accessories.	
IT9000-PV6000 User Manual	Introduce the functions and operating	
	methods of IT9000-PV6000.	

## **1.3 Brief Introduction**

IT9000-PV6000 is a kind of easy-to-use and practicable control software designed by Itech Electronic Co., Ltd. It is applicable to Itech IT6000C, IT6000B, IT6000D and IT8000 Series power supply. With this software, you can take all operations for power front panel via computer control and enjoy great convenience in remote control. This software supports RS232, USB, GPIB and Ethernet port communication.



## 1.4 Software Matching Relationship and Mode of

## Access

Software matching relationship required by IT9000 is as follows:

Item	Version	Obtained Method
Operating System	WIN7 32/64, WIN8 32/64, WIN10 32/64	Download from the official website
OFFICE	2003/2007	Download from the official website
Net Frame Work	Net Frame Work 4.0 or above	Download from the official website
VISA	V5.2 or above	Recommend to download from the original company. The download site: http://www.ni.com/download/ni-vis a-5.2/3337/en/
NI (Used to develop GPIB applications, no installation is required if this feature is not involved.)	NI488.2 3.0.2 or above	Recommend to download from the original company. The download site: http://www.ni.com/en-us/support/d ownloads/drivers/download.ni-48 8-2.html
ICP	ICP460 or above	Recommend to download from the original company. The download site: http://www.ni.com/download/ivi-co mpliance-package-4.6/4027/en/
IT9000 Software	IT9000_V1.0.0 .7_PV6000_V1 .0.0.0	Obtained from delivery CD



## Note

When downloading related software on the official website of NI, you can choose to download according to the operating system adaptation version information provided in the "Operating System".



## **Chapter2Installing Software**

## 2.1 Installing Operating System

Install operating systems of corresponding versions based on installation requirements. For detailed installation steps, refer to corresponding operation guidance on Windows operating system installation software.

To use Export function of IT9000 software, be sure to install OFFICE software.

## 2.2 Installing NI 488.2 Driver

It is applicable to industrial standards for developing GPIB applications. Windows NI-488.2 integrates a complete set of developing tools to enable fast starting and operation of applications, and its high-performance drivers save test time and improve efficiency to the maximum extent.

### Procedure



1. Run setup.exe in the folder Install Package.

2. Click "Next" to enter the Select Page of Installation Directory.



### Installing Software

🖏 NI-488.2 for Windows, Version 3.0.2	
Destination Directory Select the primary installation directory.	
AI National Instruments software will be installed in the following folder. T different folder, click the Browse button, and select another folder.	o install in a
Destination Directory	
D:\Program Files (x86)\National Instruments\	Browse
	Next >> Cancel

3. Click "Next" to select the components to be installed. If there are no special requirements, keep the default settings.

😡 NI-488.2 for Windows, Version 3.0.2	
Features Select the features to install.	
NI-488.2 3.0.2 Application Support LabVIEW Support LabVIEW Support LabView Support LabView Support C/C++ Support Visual Basic Support DLL Direct Entry Support NET Framework 3.5 Lan NET Framework 3.5 Lan NET Framework 4.0 Lan Measurement Studio for Mi-488.2 3.0 for LabVIEW Real-Time NI-VISA 5.1.1 NI I/O Trace 3.0	NI-488.2 provides drivers and software to enable the use of National Instruments GPIB hardware.
D:\Program Files (x86)\National Instruments\NI-488.2\	Browse
Restore Feature Defaults Disk Cost	<pre></pre>

4. Click "Next" and select whether to check the check box as shown below in the "Product Notice" page.



🐨 NI-488.2 for Windows, Version 3.0.2	
Product Notifications Please read the following information about the configuration you have selected.	7 NATIONAL INSTRUMENTS
✓ Request the installer to contact National Instruments to search for new notifications a National Instruments products you are installing. By checking this box, you acknowle address will be sent and collected in accordance with the National Instruments Priva	dge that your IP
<pre></pre>	Cancel

5. Click "Next" and select whether to read and accept the terms in the License Agreement.

NI-488.2 for Windows, Version 3.0.2	
License Agreement You must accept the licenses displayed below to proceed.	<b>NATIONAL</b> INSTRUMENTS
NATIONAL INSTRUMENTS SOFTWARE LIC	
INSTALLATION NOTICE: THIS IS A CONTRACT. BEFORE YOU DOW AND/OR COMPLETE THE INSTALLATION PROCESS, CAREFULLY DOWNLOADING THE SOFTWARE AND/OR CLICKING THE APPLIC COMPLETE THE INSTALLATION PROCESS, YOU CONSENT TO TI AGREEMENT AND YOU AGREE TO BE BOUND BY THIS AGREEME BECOME A PARTY TO THIS AGREEMENT AND BE BOUND BY ALL CONDITIONS, CLICK THE APPROPRIATE BUTTON TO CANCEL TI DO NOT INSTALL OR USE THE SOFTWARE, AND RETURN THE S (30) DAYS OF RECEIPT OF THE SOFTWARE (WITH ALL ACCOMPA ALONG WITH THEIR CONTAINERS) TO THE PLACE YOU OBTAINE SHALL BE SUBJECT TO NI'S THEN CURRENT RETURN POLICY.	READ THIS AGREEMENT. BY CABLE BUTTON TO HE TERMS OF THIS ENT. IF YOU DO NOT WISH TO OF ITS TERMS AND HE INSTALLATION PROCESS, OFTWARE WITHIN THIRTY ANYING WRITTEN MATERIALS,
The software to which this National Instruments license applies is NI-488.2 for	
	e License Agreement. cept the License Agreement.
<< Back	Next >> Cancel

6. Click "Next" to install.



🐺 NI-488.2 for Windows, Version 3.0.2	
	INSTRUMENTS
Overall Progress: 2% Complete	
	<< Back Next >> Cancel

7. After the installation finished, click "Next", and the message "Restart Computer" will pop up. You can select "Restart Later" to restart the computer after all other drivers are installed.

## 2.3 Installing NI VISA

NI-VISA is a VISA I/O standard implemented by NI. It provides the programming interfaces between hardware and application development environments like NI LabVIEW, LabWindows/CVI and Measurement Studio (used for Microsoft Visual Studio).

1. Run setup.exe in the folder Install Package.

### Installing Software





### 2. Click "Next".

NI-VISA 5.2			
Destination Directory Select the primary installation (	directory.	1	
National Instruments software will be different folder, click the Browse bu	e installed in a subfolde tton and select another	r of the following. To inst	all into a
Destination Directory			
D:\Program Files\			Browse
		<< <u>B</u> ack Next	>> <u>C</u> ancel

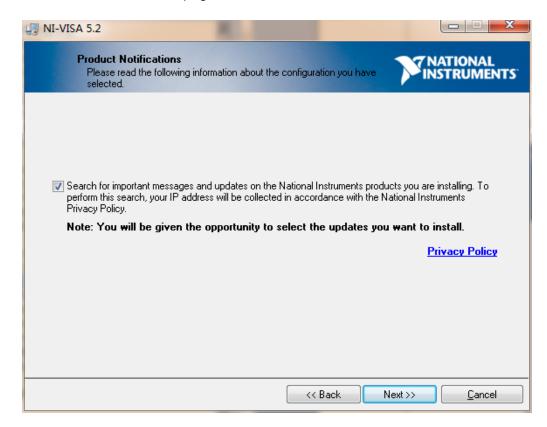
3. Click "Next" to select the components to be installed. If there are no special



requirements, keep as default.

UI-VISA 5.2			
Features Select the features to install.			
<ul> <li>NI-VISA 5.2</li> <li>Run Time Support Configuration Support</li> <li>Development Support</li> <li>Remote Server</li> <li>Real-Time Support</li> <li>Windows Mobile/CE Support</li> <li>NI Instrument I/O Assistant 2.8.0</li> <li>NI I/O Trace 3.0.2</li> <li>NI System Configuration 5.3.0</li> <li>NI Measurement &amp; Automation Explorer 5.3</li> <li>NI-1588 Configuration 1.1.2</li> </ul>	National Instruments VISA driver version 5.2. VISA provides an API for controlling VXI, GPIB, Serial, PXI and other types of instruments.		
Directory for NI-VISA 5.2			
C:\Program Files (x86)\IVI Foundation\VISA\ Bjowse			
Restore Feature Defaults	<< <u>B</u> ack <u>N</u> ext >> <u>C</u> ancel		

4. Click "Next" and select whether to check the check box as shown below in the "Product Notice" page.





5. Click "Next".

II-VISA 5.2	A	
Product Notifications The installer will now che installing.	eck for new notifications for the prod	
There are no notification	ons for your products.	
	<< <u>B</u> ac	k <u>Next&gt;&gt;</u> <u>C</u> ancel

6. Click "Next" and select whether to read and accept the terms in the License Agreement.

💭 NI-VISA 5.2				
License Agreement You must accept the licenses displayed below to proceed.				
MICROSOFT SOFTWARE SUPPLEMENTAL LICENSE TERMS MICROSOFT .NET FRAMEWORK 2.0				
Microsoft Corporation (or based on where you live, one of its affiliates) licenses this supplement to you. If you are licensed to use Microsoft Windows operating system software (the "software"), you may use this supplement. You may not use it if you do not have a license for the software. You may use a copy of this supplement with each validly licensed copy of the software.				
The following license terms describe additional use terms for this supplement. These terms and the license terms for the software apply to your use of this supplement. If there is a conflict, these supplemental license terms apply.				
By using this supplement, you accept these terms. If you do not accept them, do not use this supplement. If you comply with these license terms, you have the rights below.				
The software to which this third-party license applies is distributed with NI-VISA 5.2.				
	Elicense Agreement.) Sept the License Agreement.			
<< <u>B</u> ack	Next >> Cancel			



### 7. Click "Next" to confirm installation information.

💭 NI-VISA 5.2	
Start Installation Review the following summary before continuing.	
<ul> <li>Cannot install         <ul> <li>NI-VISA 5.2</li> <li>Run Time Support (higher version already installed)</li> <li>Configuration Support (higher version already installed)</li> <li>Development Support (higher version already installed)</li> <li>Remote Server (higher version already installed)</li> <li>NI I/O Trace 3.0.2 (higher version already installed)</li> <li>NI Measurement &amp; Automation Explorer 5.3 (higher version already installed)</li> <li>NI-1588 Configuration 1.1.2 (higher version already installed)</li> </ul> </li> <li>NI-VISA 5.2</li> <li>NI System Configuration 5.3.0</li> </ul>	
Click the Next button to begin installation. Click the Back button to change the i	installation settings.
<u>S</u> ave File) << <u>B</u> ack	Next >> Cancel

### 8. Click "Next" to install.

NI-VISA 5.2	A	
Overall Progress: 0% Comple	ste	
Action 11:17:01: NIMUMeta	Hook.91D5760B_F9E8_4332_BFE	B1_38A4CB799A3E.



9. After the installation finished, click "Next", and the message of "Restart Computer" will pop up. Restart the computer to make driver installation effective.

## 2.4 Installing ICP Driver

The NI IVI Compliance Package comprises class drivers and support libraries for developing and using IVI device interchangeability applications. ICP is based on and conforms to the latest versions of the instrument programming specifications defined by IVI Fund.

### Operation steps



1. Run setup.exe in the folder Install Package.

2. Click "Next" to enter the Select Page of Installation Directory.



🐙 NI IVI Compliance Package 4.6	
Destination Directory Select the primary installation directory.	
The National Instruments portion of the NI IVI Compliance Package in the subfolder of the following directory. To install National Instrume into a different folder, click the Browse button, and select another fo The IVI Foundation's IVI Shared Components will be installed in a se You can specify that directory on the next dialog (if it is not already d system).	ents software Ider. ¤parate folder.
Destination Directory D:\Program Files\National Instruments\	Browse
<< <u>B</u> ack	Next >> Cancel

3. Click "Next" to select the components to be installed. If there are no special requirements, keep as default.

🐺 WI IVI Compliance Package 4.6	
Features Select the features to install.	
MI Compliance Package 4.6 VI Shared Components VI Class Drivers LabVIEW 2013 (32-bit) Supp LabVIEW 2012 (32-bit) Supp LabVIEW 2011 (32-bit) Supp LabVIEW 2010 (32-bit) Supp LabVIEW 2010 (32-bit) Supp LabWindows/CVI Support VI Class Simulation Drivers VI-COM Adapters Online Help	Installs support libraries and APIs for developing and using IVI drivers and applications.
Oriectory for IVI Compliance Package 4.6	
	Browse
Restore Feature Defaults	<< Back Next >> Cancel



4. Click "Next" and select whether to check the check box as shown below in the "Product Notice" page.

🦷 WI IVI Compliance Package 4.6	
Product Notifications Please read the following information about the configuration you have selected.	
Search for important messages and updates on the National Instruments products perform this search, your IP address will be collected in accordance with the Natio Privacy Policy. Note: You will be given the opportunity to select the updates you we	onal Instruments
	Privacy Policy
(< <u>B</u> ack	t>> <u>C</u> ancel

- 5. Click "Next" and select whether to read and accept the terms in the License Agreement.
- 6. Click "Next" to confirm installation information.



🐺 WI IVI Compliance Package 4.6	
Start Installation Review the following summary before continuing.	
Upgrading         • IVI Compliance Package 4.6         IVI Class Drivers         IVI Class Simulation Drivers         Online Help         Adding or Changing         • IVI Compliance Package 4.6         IVI Shared Components	
Click the Next button to begin installation. Click the Back button to change the installation	n settings.
<u>S</u> ave File) << <u>B</u> ack <u>N</u> ex	xt >> <u>C</u> ancel

7. Click "Next" to install.

🖏 NI IVI Compliance Package 4.6	
Overall Progress: 1% Complete	
Action 9:32:18: NIMUSetPermissionsPreinstall.91D5760B_F9E8_4332_BFB1_3	8A4CB799A3E0.
	Next >> Cancel

8. After the installation finished, click "Finish", and the message of "Restart

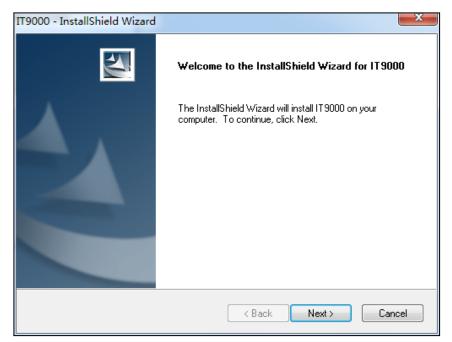


Computer" will pop up.

## 2.5 Installing IT9000 Software

### **Operation steps**

1. Double click and run "setup.exe".

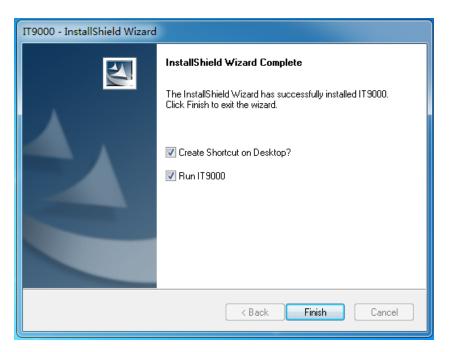


- 2. Click "Next". Confirm the installation information.
- 3. Click "Next" to deploy software package.

IT9000 - InstallShield Wizard		×
Choose Destination Location Select folder where setup will install files.		22
Setup will install IT9000 in the following folder.		
To install to this folder, click Next. To install to another folder.	a different folder, click Browse and s	elect
Destination Folder		
C:\Program Files\ITECH\IT9000\	Br	owse
InstallShield		
	< Back Next >	Cancel



4. Click "Next" to install.



5. After the installation finished, click "Finish".

## 2.6 Verifying the Installation

After the installation finished, click Start\All Programs\Itech\IT9000 and then click on the IT9000 Run Program to start it.

If you've selected the option "Create a Desktop Shortcut" during installation, you may also run the software by directly clicking on the desktop shortcut created.

The IT9000 main page is shown as below.

IT9000									-	o x
A Config 🔊 Data Setting	Add Same Data	Bata Dawn	<b>1</b>	all and	C Trit					
		J such don't		- Moout						
										_



## **Chapter3Removing Software**

Follow the operation methods below to remove IT9000 software.

- 1. Execute the executable file "setup.exe" of the IT9000 software.
- 2. Select "Remove" and click "Next". The uninstall confirmation dialog is displayed.

IT9000 - InstallShield Wizard	
Welcome Modify, repair, or remove the program.	
Welcome to the IT9000 Setup Maintenance p installation. Click one of the options below.	program. This program lets you modify the current
<ul> <li>Modify</li> <li>Select new program features to remove.</li> </ul>	add or select currently installed features to
<ul> <li>Repair</li> <li>Reinstall all program features in</li> </ul>	stalled by the previous setup.
Remove     Remove all installed features.  InstallShield	
	< Back Next > Cancel

- 3. Click "Yes" to begin software removal.
- 4. Click "Finish" to finish software removal.

IT9000 - InstallShield Wizard	
	Uninstall Complete InstallShield Wizard has finished uninstalling IT9000.
	K Back Finish Cancel

### **Contact US**

Thank you for purchasing ITECH products. If you have any doubt about this product, please contact us as follows.

- 1. Please refer to the CD-ROM of related user's manual in package.
- 2. Visit ITECH website www.itechate.com.
- 3. Select the most convenient contact for further consultation.